

Agenda

8:30	Introductions and Opening Remarks
9:15	Overview of the Five Year Plan
9:30	Report-out on Objective 1: Assess Water Supply Sources for Contamination
11:30	Report-out on Objective 2: Assess and Cleanup of Legacy Uranium Mine Sites
11:45	Lunch
1:00	Report-out on Objective 2: Assess and Cleanup of Legacy Uranium Mine Sites
2:00	Report-out on Objective 3: Assess, Cleanup, and Perform Long-Term Management of Former Uranium Milling Sites
2:30	Report-out on Objective 4: Assess and Cleanup Contaminated Structures and Properties
2:45	Report-out on Objective 5: Communicate and Coordinate with Communities
3:30	Review of Action Items and Next Steps
4:00	Adjourn

Overview of the Five Year Plan

Report to the public the progress made in implementing the 2010 Five-Year Plan and to memorialize priorities and activities for the next five years in the Grants Mining District

- Assess water supply sources for contamination
- II. Assess and cleanup legacy uranium mines
- III. Assess, cleanup, and perform long-term management of former uranium milling sites
- IV. Assess and clean up contaminated structures and properties
- V. Communicate and coordinate with communities

EPA Region 6 Activities

Grants Mining District
Five Year Plan
Partners Meeting

EPA Region 6 Activities

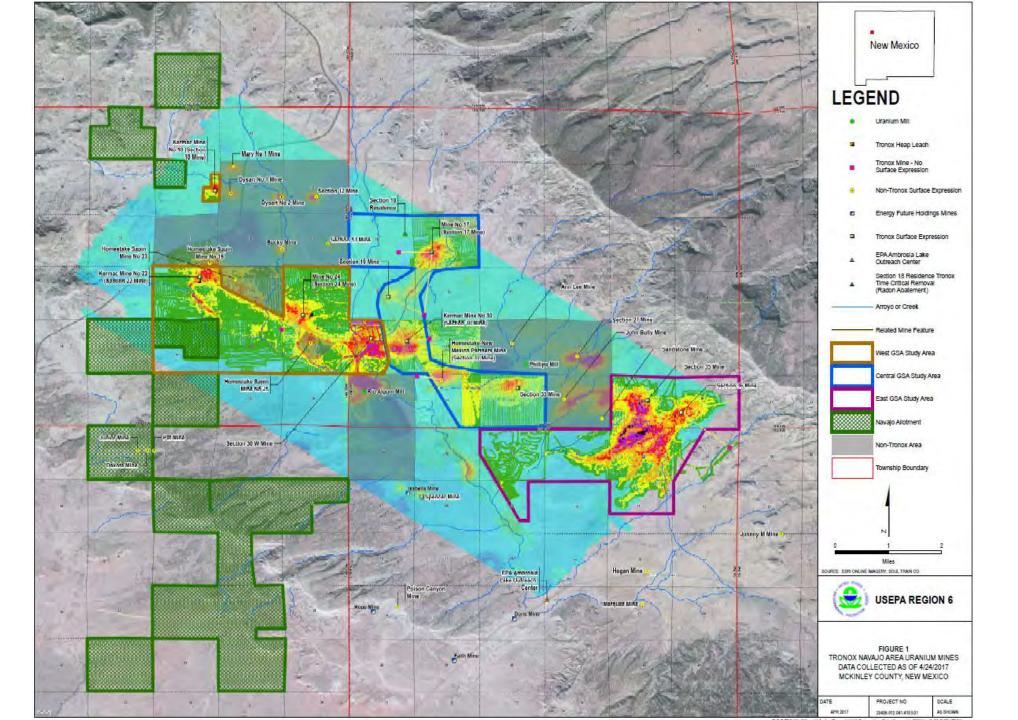
- Ambrosia Lake District / Tronox Mines
- Johnny M Mine
- Energy Future Holdings Bankruptcy Hope, Doris, Faith, and Isabella
- Rio Puerco
- Jackpile-Paguate Mine
- Homestake
- UNC

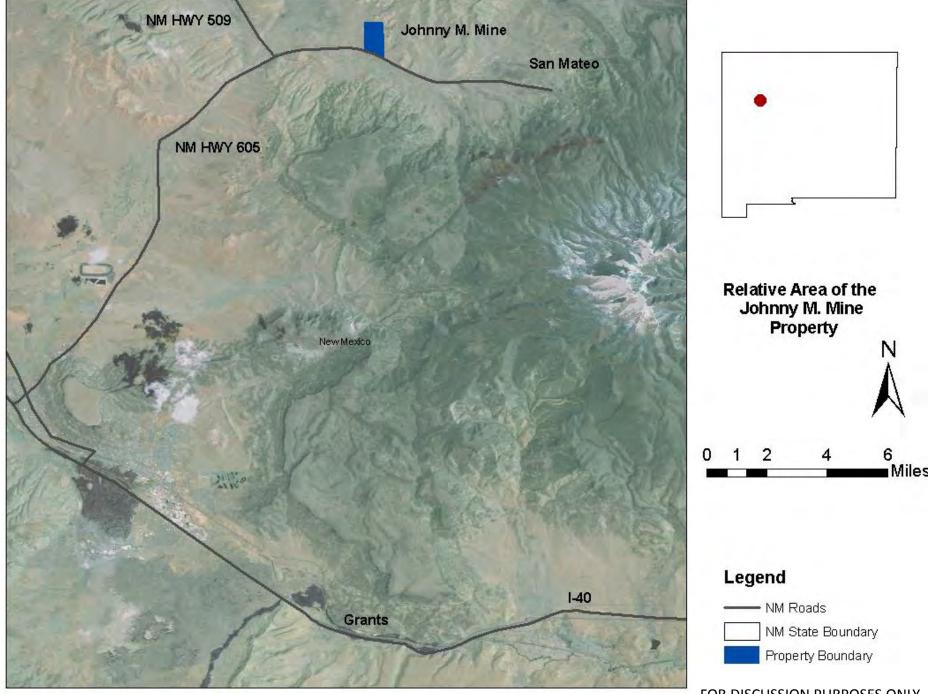
Ambrosia Lake District / Tronox Mines

12 Surface Expressions

Funded by Tronox Settlement

- Three Geographical Areas
 - East National Remedy Review Board in the Fall
 - Central Removal Assessment ongoing
 - West Removal Site Assessment Completed

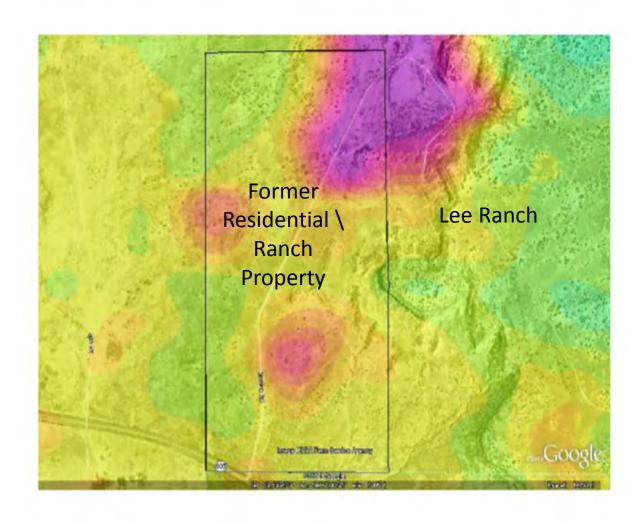




FOR DISCUSSION PURPOSES ONLY

 Site was identified on 2009 ASPECT overflight as area of concern.

 EPA 6 initiated a removal site evaluation on the Residential\Ranch Property in early 2011.



- Operated as a wet mine from 1972 1982 by Ranchers Exploration (predecessor to Hecla Mining).
- Uranium mill tailings were used to backfill the mine. Process originated under State license and oversight until 1986; transferred to NRC.
- March 2011 EPA 6 began negotiations with Hecla and notified them of intent to temporarily relocate residents and business.
- April 2011 residents and business temporarily relocated (6 months + extension).

 February 2012 - Hecla buys out the adjacent Residential \ Ranch Property.

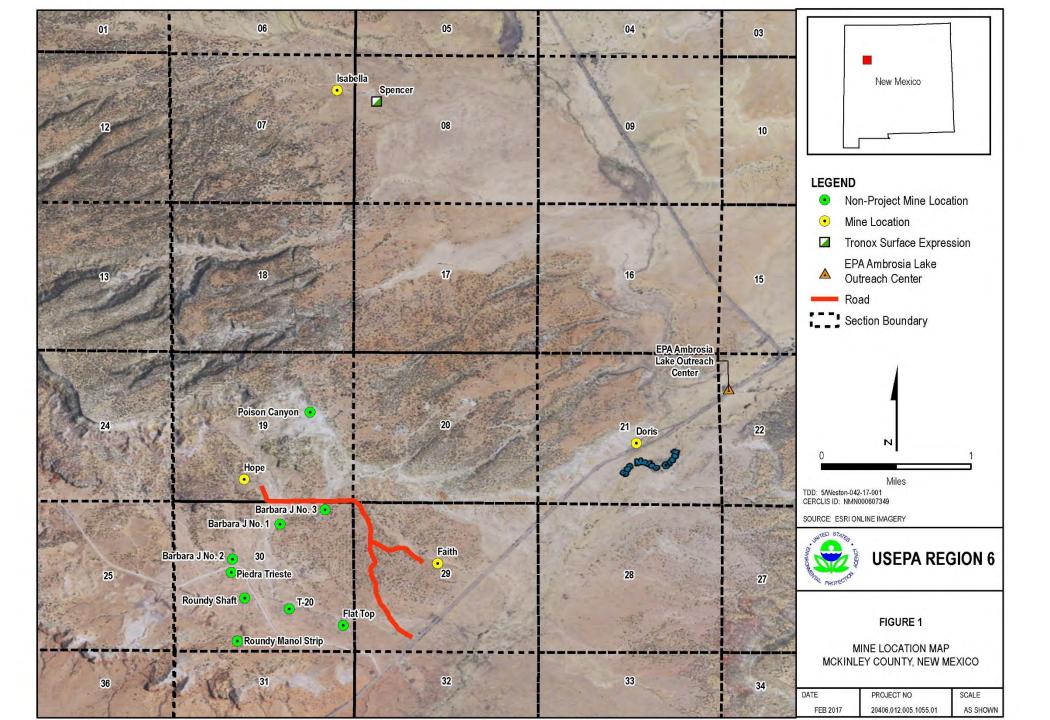
 August 2012 - Hecla signs AOC to conduct an EE/CA for the Johnny M Mine Site.

June 2015 – EPA accepts Hecla's draft EE/CA

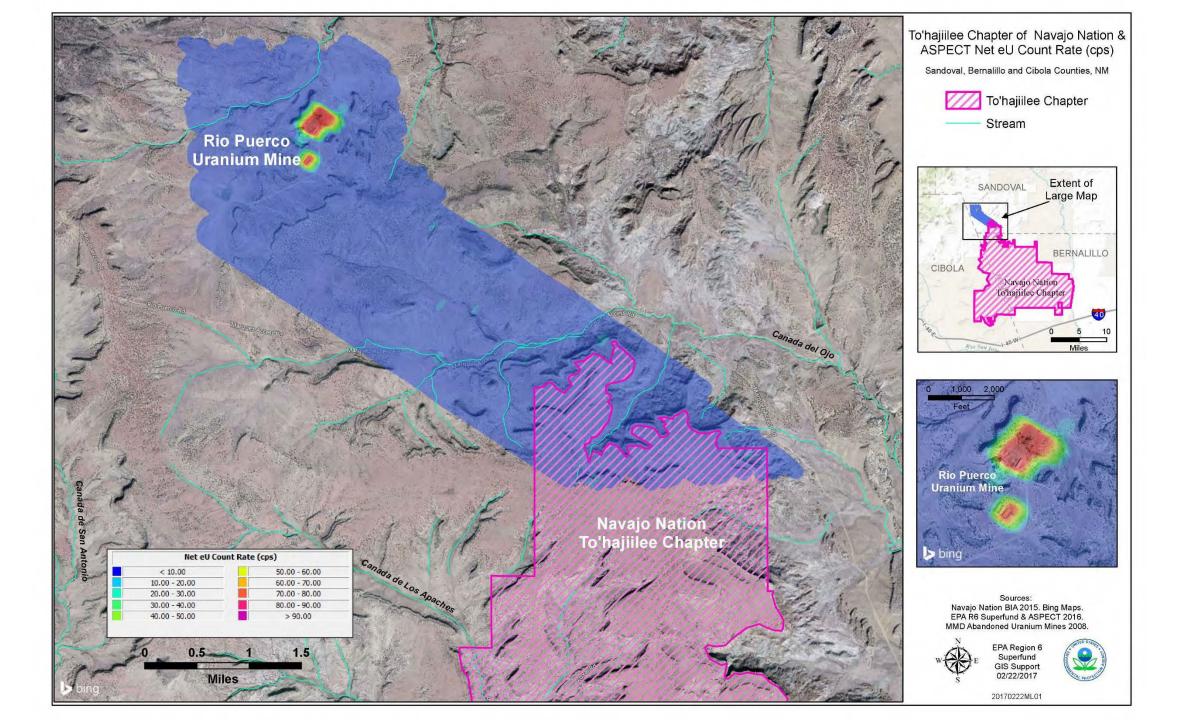
May (Expected) – EE/CA Published for Public Comment

Energy Future Holdings Bankruptcy

- Isabella, Hope, Faith, Doris Mines
- EFH declared bankruptcy in 2014
- Texas Utilities Fuel Company (TUFCO) MMD Registration Card
- \$5 million recovery
- Removal Assessments started in January 2017



Rio Puerco Mine

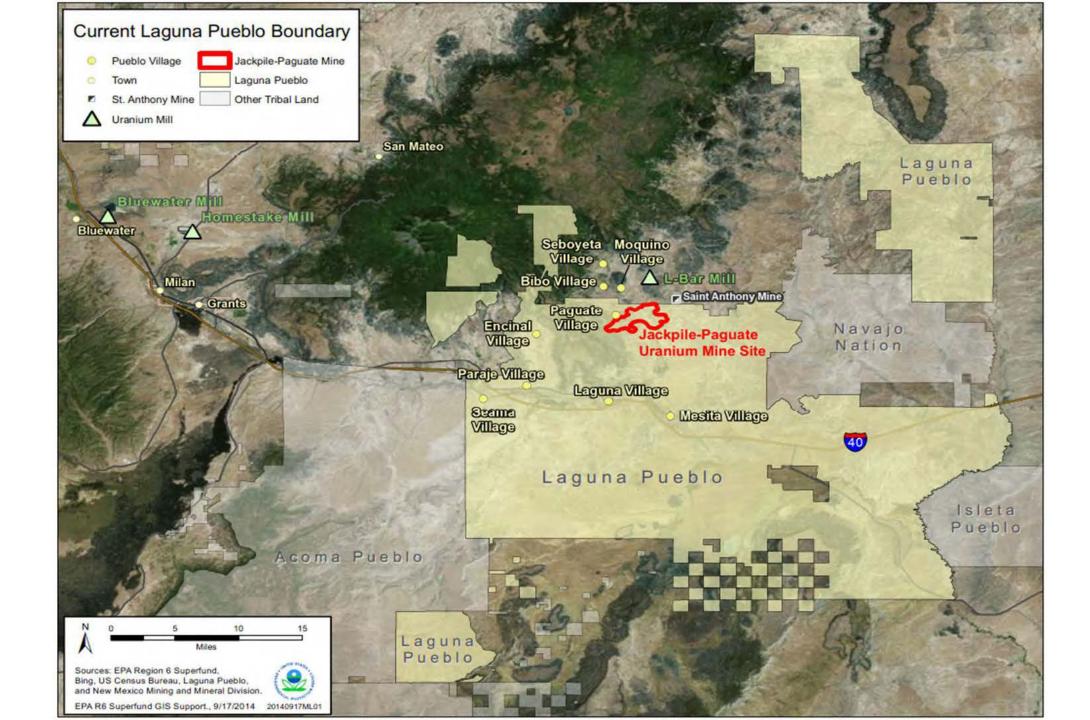


Rio Puerco Mine

- Aerial Assessment Suggests elevated levels of Uranium around the mine shaft and at the retention ponds
- Aerial Assessment suggests no migration of contamination towards To'hajillee Chapter
- BLM is Regulatory Lead



Jackpile-Paguate Uranium Mine



Jackpile-Paguate Uranium Mine

- Operated 1953-1982
- 400 million tons of rocks were moved within the mine area
- 25 million tons of uranium ore were transported to Anaconda's Bluewater Mill.
- The Site was listed December 12, 2013.
- Ongoing negotiations between EPA and ARCO for Remedial Investigation and Feasibility Study

Homestake Mining Company Superfund Site



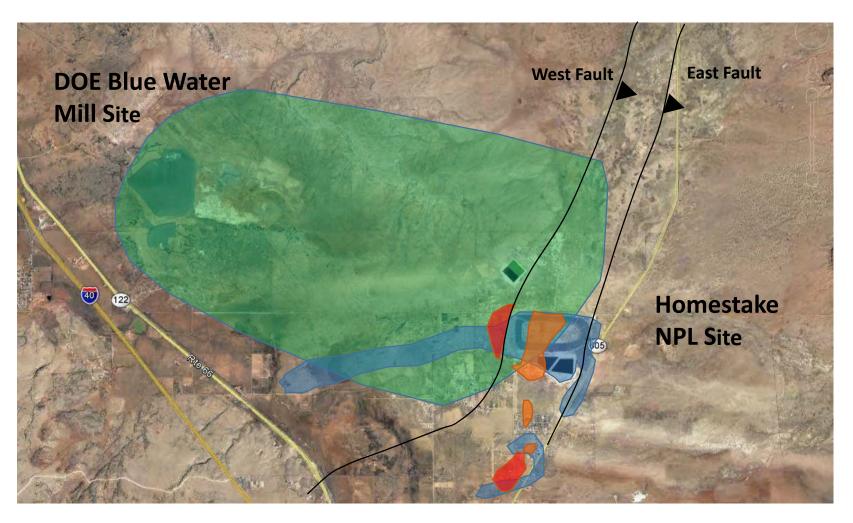
Site Chronology

- 1958 to 1990 Mill operation
- Late 1970s Contamination observed in private wells
- 1983 Agreement between HMC and EPA
 - Connect residences to Milan water supply
 - Pay water bills for 10 years
- 1983 Site listed on NPL
- 1989 EPA signs No Action ROD for off-site radon (OU3)
 - Ground Water (OU1) and Surface Reclamation (OU2) deferred to NRC
- 2013 EPA initiates RI/FS (CERCLA Equivalency)

Site Description

- Tailing Seepage Impacts Multiple Aquifers
- HMC implementing GW Restoration
 - GW Collection and Injection System
 - Expanded RO Treatment Plant
 - Zeolite Treatment System
 - 2 Lined Collection Ponds
 - 3 Lined Evaporation Ponds
- Cleanup Levels represent Background Water Quality
 - Uranium (160 ppb) is 5 times MCL
- EPA/USGS Reassessing Background 2016-2017

GROUND WATER IMPACTS



Modified from DOE 2015, HMC 2015

(SAG)

Uranium Impacts

Upper Chinle SS

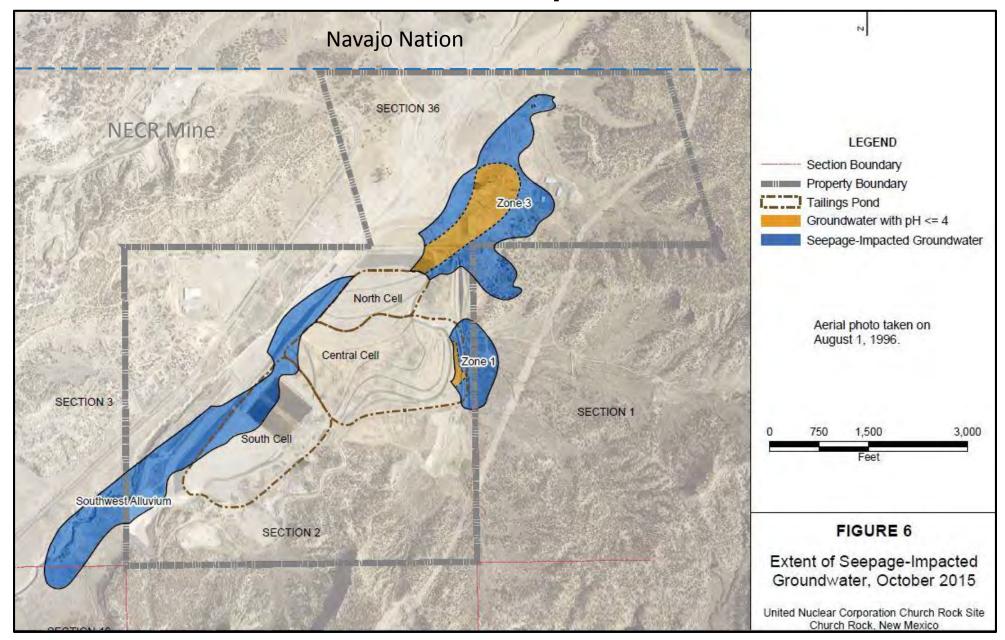
Middle Chinle SS

San Andres/Glorietta

Alluvium

United Nuclear Corporation Superfund Site

Site Map



Uranium Mill and Tailing Disposal Site

- Regulated by NRC and EPA
- Supplemental Feasibility Study ongoing
 - Assess effectiveness of remedy
- Mine water discharge is anthropogenic background
 - Poor water quality
- To be permanent repository for NECR mine waste
 - Repository design ongoing (Region 9 Lead)
 - Requires NRC approval

Conceptual Extent of Mine Water Discharge - 2026

